92-10
10-12-98

Carmen Johnson
Fac/Perm/Co ID # 92-10
Date 9/26/12
Doc ID#

CP&L

Carolina Power & Light Company
Harris Nuclear Plant
P.O. Box 165
New Hill NC 27562

SERIAL: HNP-98-174

DEC 16 1998

Mr. Bobby Lutfy
North Carolina Department of Environment
and Natural Resources,
Solid Waste Section
PO Box 27687
Raleigh, NC 27611-7687

DEC 1998
Received
Solid Waste
Section

Subject: Shearon Harris Nuclear Power Plant
Solid Waste Permit No. 92-10
Groundwater Monitoring Data

Dear Mr. Lufty:

In accordance with Solid Waste Permit No. 92-10, for the Harris Nuclear Plant (HNP) sanitary landfill, enclosed are the results of the second semi-annual sampling of the groundwater monitoring wells for 1998. As discussed on November 16, 1998, during a telephone conversation between you and Mr. Charlie Ross of CP&L, the following information is being provided. The HNP sanitary landfill wells were sampled as scheduled in October 1998. However, the list of constituents for which the October 1998 samples were analyzed was not complete. Consequently, additional samples were obtained in November 1998 and analyzed for the complete list of constituents. Both sets of results are being submitted for your review. The wells are next scheduled to be sampled in April 1999.

If you have any questions or need further information, please contact Mr. R. T. Wilson at (919) 362-2444.

Sincerely,

B. H. Clark
Plant General Manager
Harris Nuclear Plant

MGW

Enclosures

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
GROUNDWATER MONITORING DATA
SOLID WASTE PERMIT NO. 92-10

	Well #				
PARAMETER	Well #1	Well #2	Well #3	Well #4	Well #5
Date sampled	10/12/98	10/12/98	10/12/98	10/12/98	10/12/98
pH (units)	7.5	5.5	7.7	7.7	7.3
Specific Conductance, uS/cm	580	100	420	380	330
Arsenic, Total ug/L	4.6	<1.0	2.3	1.9	1.5
Barium, Total ug/L	89	17	129	17	63
Cadmium, Total ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloride mg/L	18	12	20	7	9
Chromium, Total ug/L	*	*	*	*	*
Copper, Total ug/L	1.8	4.2	2.4	2.8	1.3
Fluoride mg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Iron, Total ug/L	70	380	120	64	<40.0
Lead, Total ug/L	<2.0	<2.0	<2.0	<2.0	<2.0
Manganese, Total ug/L	130.0	33	98	<10.0	<10.0
Mercury, Total ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Nitrate + Nitrite (as N) mg/L	0.19	0.43	0.1	0.05	<0.02
Selenium, Total ug/L	1	<1.0	<1.0	<1.0	<1.0
Silver, Total ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfate mg/L	<2.0	3	13	<2.0	6
Zinc, Total ug/L	37	<10.0	56	13	68
Total Organic Halides (TOX) mg/L	130	54	41	33	<5.0
Total Dissolved Solid (TDS) mg/L	372	98	272	224	224
Biochemical Oxygen Demand (BOD) mg/L	7	<2.0	<2.0	<2.0	10
Chemical Oxygen Demand (COD) mg/L	*	*	*	*	*
Total Organic Carbon (TOC) mg/L	7.8	4.1	4	3	5.6

* Analysis Not Requested

1-5-99
- Called Bob Wilson
- Asked for return call.
- Questions about sampling data. LL

1-5-99 10:30
- Return call from Bob Wilson
- He will review data. & call back.

Aquateck
-Sanford

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
GROUNDWATER MONITORING DATA
SOLID WASTE PERMIT NO. 92-10

	Well #				
PARAMETER	Well #1	Well #2	Well #3	Well #4	Well #5
Date sampled	11/19/98	11/19/98	11/19/98	11/19/98	11/19/98
pH (units)	7.6	5.6	7.9	7.7	7.2
Specific Conductance, uS/cm	650	108	442	442	363
Arsenic, Total ug/L	4.1	<1.0	2.6	1.1	<1.0
Barium, Total ug/L	103	39	195	22	75
Cadmium, Total ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloride mg/L	18	13	24	11	11
Chromium, Total ug/L	<10	29	<10	<10	<10
Copper, Total ug/L	3.3	1.5	4.6	4.7	4
Fluoride mg/L	0.16	<0.1	0.18	0.18	0.13
Iron, Total ug/L	120	2000	160	170	120
Lead, Total ug/L	<2.0	2.2	<2.0	<2.0	<2.0
Manganese, Total ug/L	222	63	188	<10.0	<10.0
Mercury, Total ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Nitrate + Nitrite (as N) mg/L	0.05	0.54	0.04	<0.02	<0.02
Selenium, Total ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Silver, Total ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfate mg/L	<2.0	<2.0	4	<2.0	4
Zinc, Total ug/L	48	57	24	25	75
Total Organic Halides (TOX) mg/L	49	28	56	7.4	11
Total Dissolved Solid (TDS) mg/L	318	82	228	222	192
Biochemical Oxygen Demand (BOD) mg/L	6	5	15	<2.0	<2.0
Chemical Oxygen Demand (COD) mg/L	24	13	19	<8	<8
Total Organic Carbon (TOC) mg/L	13	9.7	120	53	1.3